

AMENDMENTS

This section presents changes to the claims in a clean-unmarked format. A version with markings to show the changes made by the current amendment is provided after the remarks section.

Presentation Of The Claims In A Clean-Unmarked Format

In the Claims:

Presented below are the claims in a clean-unmarked format. Please amend claims 1 – 10 and add new claims 11 – 31 as indicated below.

1. (Amended) system comprising:

a hydrogen fuel cassette, the fuel cassette including a hydrogen containing core fuel material; and

a hydrogen recovery unit to receive the fuel cassette, to recover hydrogen-based fuel from the core fuel material of the fuel cassette, and to provide the hydrogen-based fuel as output.

2. (Amended) A system comprising:

a cassette housing defining at least one interior region; and

a hydrogen containing core fuel material stored in the at least one interior region.

3. (Amended) The system of claim 2 further including an electronic device to store information related to the cassette.

4. (Amended) The system of claim 2 further including a memory and telemetry circuit to transmit fuel cassette information to a remote receiver.
5. (Amended) The system of claim 2 wherein the core fuel material comprises a massively catalyzed water.
6. (Amended) The system of claim 2 wherein the core fuel comprises a solid alloy.
7. (Amended) A hydrogen recovery unit comprising:
 - a hydrogen fuel cassette receiving module to receive a removably insertable hydrogen fuel cassette having a hydrogen containing core fuel material therein;
 - a processing module to extract the core fuel material from the hydrogen fuel cassette and to convert the core fuel material into hydrogen fuel; and
 - an output port to transfer out the hydrogen fuel.
8. (Amended) The unit of claim 7 further including an integrated fuel cell to self-power the unit.
9. (Amended) The unit of claim 7 wherein the core fuel material comprises a massively catalyzed water.
10. (Amended) The unit of claim 7 wherein the core fuel material comprises a solid alloy.
11. (New) The system of claim 1, further comprising a thermal system to heat the material to recover the hydrogen-based fuel.
12. (New) The system of claim 1:
 - wherein the cassette contains a port to allow the material to exit the cassette; and

further comprising a reaction system of the recovery unit to react the material with a reactant to recover the hydrogen-based fuel.

13. (New) The system of claim 1, wherein the hydrogen recovery unit is affixed to a hydrogen powered vehicle.
14. (New) The system of claim 2, further comprising a bar code attached to the cassette housing.
15. (New) The system of claim 2, further comprising a thermal system to heat the material within the cassette.
16. (New) The system of claim 2, further comprising a pivoted handle attached to the housing.
17. (New) The system of claim 2, wherein the cassette housing comprises a flexible foil.
18. (New) The system of claim 2, wherein the system is approved for transportation by a government transportation organization as non-hazardous material.
19. (New) The system of claim 18, wherein the organization is selected from the group consisting of Department of Transportation, Federal Aviation Administration, and National Transportation Safety Board.
20. (New) The system of claim 2:

wherein the material comprises a solid state hydrogen storing material to store hydrogen in an un-pressurized state;

further comprising one or more electronic devices attached to the system to store information associated with the cassette, the information including status of the material within the cassette;

further comprising a communication device of the one or more electronic devices to communicate the information associated with the cassette to a remote receiver;
further comprising information on the outside of the cassette that indicates a type of the material within the cassette housing; and

wherein the system is approved for transportation as a non-hazardous material by a government transportation organization.

21. (New) The system of claim 2, wherein the cassette housing comprises a cassette housing means for containing a material.
22. (New) The system of claim 2, further comprising a multiple cassette clip containing the cassette.
23. (New) The system of claim 22, wherein the clip comprises a rotary clip.
24. (New) The system of claim 22, wherein the clip comprises a stacked clip.
25. (New) The system of claim 2, further comprising a hydrogen recovery unit having the cassette inserted therein.
26. (New) The system of claim 25, wherein the recovery unit is affixed to a hydrogen powered vehicle.
27. (New) A method comprising:
inserting a cassette having a hydrogen core fuel material contained therein into a cassette receiving receptacle of a hydrogen recovery unit; and
recovering hydrogen from the cassette by heating the material in the cassette.

28. (New) The method of claim 28, further comprising receiving the cassette from a common carrier prior to said inserting.

29. (New) The method of claim 28:

 further comprising providing information associated with hydrogen recovery to a network, wherein the information is automatically provided by the hydrogen recovery unit; and

 receiving another cassette having hydrogen stored therein based on the information provided to the network.

30. (New) The system of claim 1:

 wherein the cassette comprises a cassette means for containing a material; and

 wherein the recovery unit comprises a recovery unit means for recovering hydrogen-based fuel from the material.

31. (New) The system of claim 2 within a sealed shipped box of a common carrier.